BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Construction of RCC Drains and Culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no:03 Yelahanka Satellite Town sub Division

JOB NUMBER.: | Sl No.7 | Est. Amount = | 150.00 | Lakhs

Sl. No	Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate In Rs.	Amount In Rs.
1	Removing and resetting of footpath slab								
	KPWD S.R 2018-19	It. No.	37.56	Pg No	270				
	Ch:00-200 Subhash chandra Bose Main Road	sqm	1	140.00	1.00		140.00		
						Total Qty	140.00	208.82	29,234.80
2	Removing and resetting of kerb stones								
	KPWD S.R 2018-19	It. No.	37.57.	Pg No	270				
	Ch:00-200 Subhash chandra Bose Main Road		1	80.00			80.00		
						Total Qty	80.00	104.94	8,395.20
3	KSRRB300-1. Earthwork excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications.								
	KPWD S.R 2018-19	It. No.	19.10	Pg No.	130				
	Desilting of Drain	Cum							
	Ch:00-200 Subhash chandra Bose Main Road		1	200.00	0.50	0.30	30.00		
	New CC Drain								
	Ch:00-200 Subhash chandra Bose Main Road		1	200.00	1.00	0.90	180.00		
	Ch:00- 90 3rd Cross Road		2	90.00	1.00	0.90	162.00		
	Ch:00-90 4th Cross Road		2	90.00	1.00	0.90	162.00		
	Ch:00- 90 5th Cross Road		2	90.00	1.00	0.90	162.00		
	Ch:00- 350 3rd main Road		2	350.00	1.00	0.90	630.00		
	New Kerb								
	Ch:00-200 Subhash chandra Bose Main Road		1	120.00	0.20	0.20	4.80		
	Ch:00- 350 3rd main Road		2	350.00	0.20	0.20	28.00		
	New Culvert								
	Cross Road		5	6.20	1.50	1.10	51.15		
						Total Qty	1379.95	211.79	2,92,256.85
4	KSRRB M2900-1. Plain cement concrete M10 mix with crushed stone aggregate 40mm nominal size mechanically mixed, placed in foundation and compacted by vibration including curing including cost of materials, labour, HOM complete as per specifications.								
	KPWD S.R 2018-19	It. No.	34.1.	Pg No.	254				
	New CC Drain	Cum							
	Ch:00-200 Subhash chandra Bose Main Road		1	200.00	1.00	0.15	30.00		
	Ch:00- 90 3rd Cross Road		2	90.00	1.00	0.15	27.00		
	Ch:00-90 4th Cross Road		2	90.00	1.00	0.15	27.00		
	Ch:00- 90 5th Cross Road		2	90.00	1.00	0.15	27.00		
	Ch:00- 350 3rd main Road		2	350.00	1.00	0.15	105.00		
	New Kerb								
	Ch:00-200 Subhash chandra Bose Main Road		1	120.00	0.20	0.15	3.60		
	Ch:00- 350 3rd main Road		2	350.00	0.20	0.15	21.00		
	New Culvert								
	Cross Road		5	6.20	1.50	0.15	6.98		
						Total Qty	247.58	4479.56	11,09,049.46

Sl. No	Description of Work	Unit	No	Dimension L	Dimension B	Dimension D	Quantity	Rate in Rs.	Amount in Rs.
7	KSRRB M2200-6. Providing TMT Bars Fe 500 steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification.								
	KPWD S.R 2018-19	It. No.	28.8.2	Pg No.	229				
	One cubic mt 60kg For CC Drain	T	1	29.81			29.81		
	One cubic mt 90kg For Culvert		1	1.45			1.45		
						Total Qty	31.26	72326.98	22,60,941.39
8	Providing and laying plain/reinforced cement concrete for side drains Wall & bottom thickness 15cm using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500,1700, 2200. including cost of materials, labour, HOM complete as per specifications.								
	KPWD S.R 2018-19	It. No.	37.59.2	Pg No.	271				
	CC Drain	Cum							
	Bottom Raft								
	Ch:00-200 Subhash chandra Bose Main Road		1	1	200.00	0.90	0.15	27.00	
	Ch:00- 90 3rd Cross Road		2	1	90.00	0.90	0.15	24.30	
	Ch:00-90 4th Cross Road		2	1	90.00	0.90	0.15	24.30	
	Ch:00- 90 5th Cross Road		2	1	90.00	0.90	0.15	24.30	
	Ch:00- 350 3rd main Road		2	1	350.00	0.90	0.15	94.50	
	Side Wall								
	Ch:00-200 Subhash chandra Bose Main Road		1	2	200.00	0.15	0.70	42.00	
	Ch:00- 90 3rd Cross Road		2	2	90.00	0.15	0.70	37.80	
	Ch:00-90 4th Cross Road		2	2	90.00	0.15	0.70	37.80	
	Ch:00- 90 5th Cross Road		2	2	90.00	0.15	0.70	37.80	
	Ch:00- 350 3rd main Road		2	2	350.00	0.15	0.70	147.00	
	New Culvert								
	Cross Road								
	Bottom Raft		5	1	6.20	1.20	0.20	7.44	
	Side Wall		5	2	6.20	0.20	0.70	8.68	
							Total Qty	512.92	7070.20	36,26,446.98
9	Supplying and fixing precast reinforced concrete slab 10 cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steel at 150mm C/c both ways cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of cost of all materials(data Rate enclosed)								
	Approval Rate								
	Cover Slab	Sqm							
	Ch:00- 90 3rd Cross Road		2		90.00	0.90		162.00	
	Ch:00-90 4th Cross Road		2		90.00	0.90		162.00	
	Ch:00- 90 5th Cross Road		2		90.00	0.90		162.00	
	Ch:00- 350 3rd main Road		2		350.00	0.90		630.00	
	For Damaged Cover Slab								
	Ch:00-200 Subhash chandra Bose Main Road (Refixing Slab 140 m)		1		60.00	0.90		54.00	
							Total Qty	1170.00	2337.00	27,34,290.00
8	Providing and laying Pre Cast Drain Cover slabs of 250mm thick of mix M20 using graded granite jelly 20mm down size with steel reinforcement, including from work, lift charges, curing and concrete finished surfaces on both side etc. complete and as per drawing and direction of Engineer-in-charge of work (data Rate enclosed)								

Sl. No	Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate In Rs.	Amount In Rs.
	Cross Road	Sqm	5	6.20	1.30		40.30		
						Total Qty	40.30	5418.00	2,18,345.40
9	Providing and fixing Pre cast solid concrete kerb stones of size 450 x 200 x 400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete.								
	KPWD S.R 2018-19	It. No.	5.29.1.	Pg No.	27				
	New Kerb								
	Ch:00-200 Subhash chandra Bose Main Road (Refixing Kerb 80 m)	Nos	1	267			267		
	Ch:00- 350 3rd main Road		2	778			1556		
						Total Qty	1823	477.00	8,69,571.00
10	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications.								
	KPWD S.R 2018-19	It. No.	24.1.	Pg No.	180				
	New Kerb								
	Ch:00-200 Subhash chandra Bose Main Road	Sqm	2	200.00		0.50	200.00		
	Ch:00- 350 3rd main Road		2	350.00		0.50	350.00		
						Total Qty	550.00	84.80	46,640.00
11	KSRRB M300-14. Excavation for roadwork in all types of soil by mechanical means including cutting and loading to tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transportation with a lead of 1.00 km and complete as per specifications.								
	KPWD S.R 2018-19	It. No.	19.14	Pg No.	143				
	Earth Work								
	Lakshmaiah reddy layout								
	BWSSB/Restoration of road Cutting								
	Ch:00-200 Subhash chandra Bose Main Road	Cum	1	200.00	0.80	0.35	56.00		
	Road Across Cuttings		8	6.40	0.30	0.35	5.38		
	Pot Holes		8	1.00	1.00	0.35	2.80		
	New BC Road								
	Ch:00- 90 3rd Cross Road		1	90.00	5.20	0.35	163.80		
						Total Qty	227.98	57.03	13,001.24
12	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregatesof granite/trap/basalt material, mixing by mix in place method by rotavator at OMC, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications.								
	KPWD S.R 2018-19	It. No.	20.60	Pg No.	153				
	Lakshmaiah reddy layout								
	BWSSB/Restoration of road Cutting								
	Ch:00-200 Subhash chandra Bose Main Road	Cum	1	200.00	0.80	0.15	24.00		
	Road Across Cuttings		8	6.40	0.30	0.15	2.30		
	Pot Holes		8	1.00	1.00	0.15	1.20		
	New BC Road								
	Ch:00- 90 3rd Cross Road		1	90.00	5.20	0.15	70.20		
						Total Qty	97.70	1855.00	1,81,233.50
13	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.								
	KPWD S.R 2018-19	It. No.	20.18	Pg No.	155				
	Lakshmaiah reddy layout								
	BWSSB/Restoration of road Cutting								
	Ch:00-200 Subhash chandra Bose Main		1	200.00	0.80	0.20	32.00		

Sl. No	Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate In Rs.	Amount In Rs.
	Road Across Cuttings	Cum	8	6.40	0.30	0.20	3.07		
	Pot Holes		8	1.00	1.00	0.20	1.60		
	New BC Road								
	Ch:00- 90 3rd Cross Road		1	90.00	5.20	0.20	93.60		
						Total Qty	130.27	2001.28	2,60,706.75
14	KSRRB 300-58. Compaction of original ground by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications.								
	KPWD S.R 2018-19	It. No.	19.64	Pg No.	147				
	Lakshmaiah reddy layout	Sqm							
	BWSSB/Restoration of road Cutting								
	Ch:00-200 Subhash chandra Bose Main Road		1	200.00	0.80		160.00		
	Road Across Cuttings		8	6.40	0.30		15.36		
	Pot Holes		8	1.00	1.00		8.00		
	New BC Road								
	Ch:00- 90 3rd Cross Road		1	90.00	5.20		468.00		
						Total Qty	651.36	6.36	4,142.65
15	KSRRB M500-6. Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WMM including cleaning of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications.								
	KPWD S.R 2018-19	It. No.	21.6	Pg No.	158				
	Lakshmaiah reddy layout	Sqm							
	BWSSB/Restoration of road Cutting								
	Ch:00-200 Subhash chandra Bose Main Road		1	200.00	0.80		160.00		
	Road Across Cuttings		8	6.40	0.30		15.36		
	Pot Holes		8	1.00	1.00		8.00		
	New BC Road								
	Ch:00- 90 3rd Cross Road		1	90.00	5.20		468.00		
						Total Qty	651.36	33.92	22,094.13
16	Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM complete as per specifications and as per directoins of the Engineer in charge of work.								
	KPWD S.R 2018-19	It. No.	21.2	Pg No.	158				
	KPWD S.R 2018-19	Sqm							
	Lakshmaiah reddy layout								
	Ch:00-200 Subhash chandra Bose Main Road		1	200.00	6.60		1320.00		
						Total Qty	1320.00	5.30	6,996.00
17	KSRRB 500-11. Providing and laying bituminous macadam using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 3.4% VG-30 Bitumen on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by smooth wheeled, vibratory & tandem rollers to achieve the desired density, but excluding cost of primer / tack coat & including lead, lift and cost of all materials, labour, HOM complete as per specifications.								
	KPWD S.R 2018-19	It. No.	21.11.6	Pg.No.	159				
	Lakshmaiah reddy layout	Cum							
	BWSSB/Restoration of road Cutting								
	Ch:00-200 Subhash chandra Bose Main Road		1	200.00	0.80	0.05	8.00		
	Road Across Cuttings		8	6.40	0.30	0.05	0.77		
	Pot Holes		8	1.00	1.00	0.05	0.40		

Sl. No	Description of Work	Unit	No	Dimension L	B	D	Quantity	Rate In Rs.	Amount In Rs.
	Ch:00- 90 3rd Cross Road		1	90.00	5.20	0.05	23.40		
	Tack Coat Qty *15%		1	1748.00	0.15	0.05	13.11		
						Total Qty	45.68	5962.50	2,72,367.00
18	KSRRB 500-7. Providing and applying tack coat using 80/100 grade bitumen(VG10) on the prepared black topped surfaces at 2.5 kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM complete as per specifications.								
	KPWD S.R 2018-19	It. No.	21.7	Pg.No.	158				
	BC Overlay								
	Lakshmalah reddy layout								
	Ch:00-200 Subhash chandra Bose Main Road	Sqm	1	200.00	6.40		1280.00		
	New BC Road								
	Ch:00- 90 3rd Cross Road		1	90.00	5.20		468.00		
						Total Qty	1748.00	12.72	22,234.56
19	Providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4 % of modified bituminous binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastics (waste plastic) crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction in all respects complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.								
	KPWD S.R 2018-19	It. No.	21.78.12	Pg.No.	162				
	BC Overlay								
	Lakshmalah reddy layout								
	Ch:00-200 Subhash chandra Bose Main Road	Cum	1	200.00	6.40	0.04	51.20		
	New BC Road								
	Ch:00- 90 3rd Cross Road		1	90.00	5.20	0.04	18.72		
						Total Qty	69.92	8699.42	6,08,263.45
20	KSRRB M800-13.Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface/ Concrete Surface: Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5 mm is exclusive of surface applied glass beads as per IRC:35 standards specified. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.								
	KPWD S.R 2018-19	It. No.	24.15	Pg.No.	182				
	Edge lane	Sqm	1 2	290.00	0.15		87.00		
	Road Both Side		1 1	145.00	0.10		14.50		
	Road Centor					Total Qty	101.50	454.74	46,156.11
21	Direction and Place Identification Signs with size morethan 0.9 Size Board: Providing and erecting direction and place identification retro -reflectorised sign as per IRC:67 made of high i ntensity grade sheeting vide Clause 801.3, fixed over aluminium sheeting, 2 mm thick with area not exceeding 0.9 sqm supported on a mild steel single angle iron post 75 x 75 x 6 mm , 2 Nos. firmly fixed to the ground by means of properly designed foundation with M 15 grade cement concrete 45 x 45 x 60 cm, 60 cm below ground level as per approved drawing.								
	KPWD S.R 2018-19	It. No.	sqm	Pg.No.	24.4				
	Edge lane	sqm	6	0.90	0.90		4.86	7557.80	36,730.91
	Road Both Side								
							Total Constrution cost		126,69,097.38
							GST 12%		15,20,291.69
							Design Report,Proof Checking & PMC Amount		3,00,000.00
							KRIDL Charges 4%		5,06,763.90

Construction of RCC Drains and Culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no:03 Yelahanka Satellite Town sub Division

Sl. No	Description of Work	Unit	No	Dimension			Quantity	Rate In Rs.	Amount In Rs.
				L	B	D			
								Sub Total	149,96,152.97
								Miscellaneous & Rounding Off	3,847.03
								Grand Total	150,00,000.00

Certificate:-

1. The workspot was inspected and work is found to be necessary.
2. The area comes within the Bruhat Bangalore Mahanagara Palike Limits.
3. The rates adopted based on the PWD SR Bangalore Circle for year 2018-19
4. The provisions made in the estimate are necessary and essential.

SRI SAI CONSULTANTS BANGALORE-90

Consultant
For Sri Sai Consultants

Assistant Engineer
Ward no. 03
BBMP - Bangalore

Assistant Executive Engineer
Yelahanka Sub Division
BBMP - Bangalore

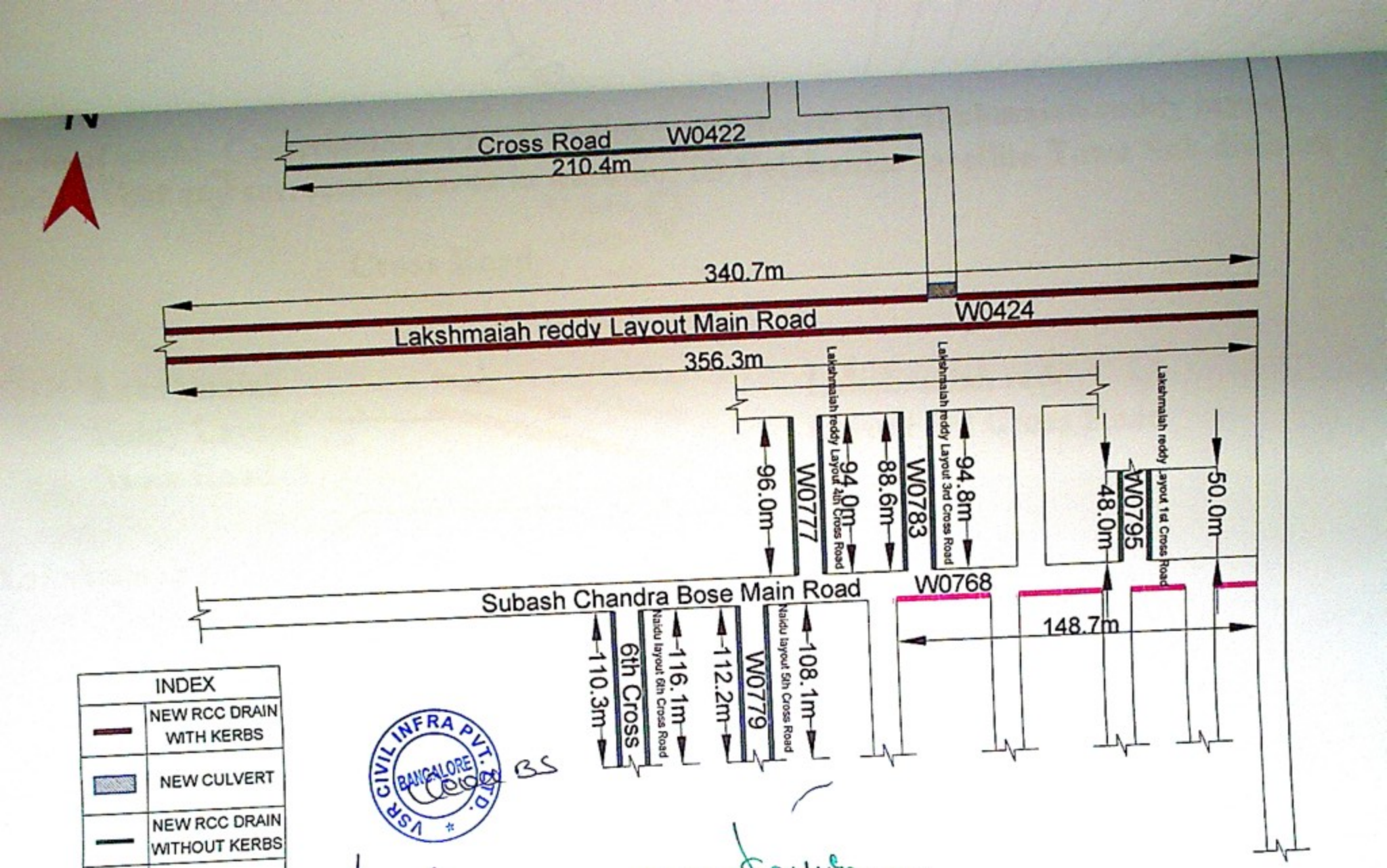
Executive Engineer
Yelahanka Division
BBMP - Bangalore

Administrative Sanction for Rs. 150.00 lakhs
one crore fifty lakhs
only
is accorded under head P-3749
CM - Navanagarothana 116-Village
grants Annexure-07
Registered as CE No. Subject
to conditions contained in enclosed memo
No. EE/YNK/571/2019-20 Dt. 7/11/2019

Executive Engineer

Technical Sanction
Accorded For RS 150.00 lakhs only
Head of A/C P 3749
CER NO : 199 DOS: 11-2019

TA CE (YNK)



Name of Work:- Construction of RCC drains and culverts at Lakshmaiah reddy layout, Naidu layout and surrounding area in ward no: 03 Yelahanka satellite Town Sub division